

Datasheet for ABIN6990712
anti-Klotho antibody (AA 410-460)



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Overview

Quantity:	0.1 mg
Target:	Klotho (KL)
Binding Specificity:	AA 410-460
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Klotho antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (IF)

Product Details

Immunogen:	Anti-KLOTHO antibody was raised against a peptide corresponding to 17 amino acids near the center of human KLOTHO. The immunogen is located within amino acids 410-460 of KLOTHO.
Isotype:	IgG
Specificity:	Three isoforms of KLOTHO are known to exist.
Purification:	KLOTHO Antibody is affinity chromatography purified via peptide column.

Target Details

Target:	Klotho (KL)
Alternative Name:	KLOTHO (KL Products)

Target Details

Background:	KLOTHO Antibody: KLOTHO is the systemic anti-aging hormone within the glycosidase1 superfamily. It encodes a type I membrane protein that is abundant in the kidney and brain. In mice, a deficiency in KLOTHO expression leads to various systemic phenotypes resembling human aging such as arteriosclerosis, osteoporosis, and skin atrophy together with growth retardation, short life-span and infertility. Transgenic mice overexpressing KLOTHO have an extended life span by inhibiting insulin/IGF1 signaling. KLOTHO is involved in the regulation of calcium/phosphorus homeostasis by inhibiting the synthesis of active vitamin D and identified as a potential tumor suppressor.
Molecular Weight:	Predicted: 116kD Observed: 116kD kDa
Gene ID:	9365
NCBI Accession:	NP_004786
UniProt:	Q9UEF7
Pathways:	Fc-epsilon Receptor Signaling Pathway , EGFR Signaling Pathway , Neurotrophin Signaling Pathway , Hormone Activity , Growth Factor Binding

Application Details

Application Notes:	WB: 1-4 µg/mL, IHC: 2.5 µg/mL, IF: 20 µg/mL. Antibody validated: Western Blot in human, mouse and rat samples, Immunohistochemistry in mouse and rat samples, Immunofluorescence in mouse samples. All other applications and species not yet tested.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	KLOTHO Antibody is supplied in PBS containing 0.02 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

Handling

should be handled by trained staff only.

Storage: -20 °C, 4 °C

Storage Comment: KLOTHO antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.